

APPENDIX

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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CLINT
DUBOIS DOANE SWECKER & MATHEIS L.L.P.
FOOT LIFTING BOY 1404
ALEXANDRIA VA 22304-1404

EXAMINER

ART UNIT	PAPER NUMBER
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DATE MAILED: 09/13/01


Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

DOANE, DOANE, SWECKER & MATHEIS, L.L.P. RECEIVED
9/14
SEP 14 2001
DOCKETED

Abel
ZUCKER
Resp due 12/13/01

Office Action Summary

Application No. 09/090,242	Applicant(s) DUDLEY	
Examiner Minsun Oh Harvey	Art Unit 2644	

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on Jun 21, 2001

2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-14 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-14 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claims _____ are subject to restriction and/or election requirements.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) ☐ All b) ☐ Some* c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

15) ☒ Notice of References Cited (PTO-892)

16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____

18) ☐ Interview Summary (PTO-413) Paper No(s). _____

19) ☐ Notice of Informal Patent Application (PTO-152)

20) ☐ Other: _____

Art Unit: 2644

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 to 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over "multi-Room Hi Fi takes control of the home" (Linn) in view of IEEE SPECTRUM "The Facts About FireWire" and further in view of Radiotron Designer's Handbook (RDH).

Linn discloses an audio sound system which is comprised of control unit (main hi-fi system); power supply means and control and interface means (signals from main system is sent to remote system and signals from remote system is sent back to the main hi-fi system); amplifier means and loudspeaker means (remote receiver); and connection cable means (CAT-5 cable is run from the main system to the remote system). Linn does not disclose that the connection cable means consist of a plurality of twisted pairs of insulated conductors of like cross section of which one twisted pair of insulated conductors of like cross-section is connected to carry the audio signal from the audio signal output terminal means to the audio signal input terminal means of the amplifier means and of which at least one twisted pair of insulated conductors of like cross-section is connected to carry power from the power output terminal means of the control unit means to the power supply input terminal means of the amplifier means.

IEEE discloses a cable comprising a plurality of twisted pairs of insulated conductors (power wires, signal twisted pair wire signal pair shield, outer shield and outer jacket of page 21),

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the use comprising audio signals (two signal twisted pair wires) and power (two power wires) on the cable, wherein the audio signals are carried in balanced from on one twisted pair of the cable and power is carried on at least one other cable. IEEE does not disclose that power is carried on a plurality of twisted pairs. Since IEEE has disclosed a single cable could transmit power and a signal, it would have been obvious to use the cable as disclosed by IEEE with Linn because a signal cable could be used to transmit different signals to a system.

Linn as modified do not disclose that power is carried on twisted pair of cable.

RDH discloses a cable which comprises using a twisted filament for carrying power supply. Since RDH has disclosed using a twisted filament for carrying power, it would have been obvious to combine Linn as modified with RDH because as disclosed by RDH, using twisted filament for carrying power would cancel out the magnetic field around the leads which would reduce hum troubles.

Regarding claims claiming that the cable is terminated in a respective RJ45 connector. Having such connector would have been obvious because RJ45 connector is well known type of connector which has been used in the art for connecting cable to a system.

3. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over IEEE SPECTRUM "The Facts About FireWire" in view of Radiatron Designer's Handbook (RDH).

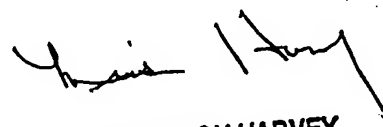
IEEE discloses a cable comprising a plurality of twisted pairs of insulated conductors (power wires, signal twisted pair wire signal pair shield, outer shield and outer jacket of page 21), the use comprising audio signals (two signal twisted pair wires) and power (two power wires) on

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the cable, wherein the audio signals are carried in balanced from on one twisted pair of the cable and power is carried on at least one other cable. IEEE does not disclose that power is carried on a plurality of twisted pairs.

RDH discloses a cable which comprises using a twisted filament for carrying power supply. Since RDH has disclosed using a twisted filament for carrying power, it would have been obvious to combine IEEE with RDH because as disclosed by RDH, using twisted filament for carrying power would cancel out the magnetic field around the leads which would reduce hum troubles.

4. Applicant's arguments with respect to claims 1 to 14 have been considered but are moot in view of the new ground(s) of rejection.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minsun Oh Harvey whose telephone number is (703) 308-6741.


MINSUN OH HARVEY
PRIMARY EXAMINER

Notice of References Cited	Applicant/Patent DUDLEY	Application/Control No. 09/090,242	
	Examiner Minsun Oh Harvey	Art Unit 2644	Page 1 of 1

U.S. PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY ¹	Name	Classification ²
A				
B				
C				
D				
E				
F				
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I				
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K				
L				
M				

FOREIGN PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY ¹	Country	Name	Classification ²
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
U	Langford-Smith, "RADIOTRON DESIGNER'S HANDBOOK", 1953, pp 1198-1199.
V	
W	
X	

* A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(e).

¹ Dates in MM-YYYY format are publication dates.

² Classifications may be U.S. or foreign.